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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/738,337	12/17/2003	Kenro Ohsawa	OOCL-32/CON (2TS-00S0337-	9711

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EXAMINER	
AMINI, JAVID A	

ART UNIT	PAPER NUMBER
2628	

MAIL DATE	DELIVERY MODE
11/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/738,337	OHSAWA, KENRO	
	Examiner	Art Unit	
	Javid A. Amini	2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *18 September 2007*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _____ is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *26-28,38 and 39* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Response to Arguments

Applicant's arguments see Remarks, filed 9/18/2007, with respect to the rejection(s) of claims 26-28, and 38-39 under Aloni et al and Ohsawa et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Aloni et al. Patent No.: 6,219,011 B1, Carrein Patent No.: 6,262,744, and Baron Patent No. 5,534,949.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26-28, and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aloni et al. Patent No.: 6,219,011 B1, hereinafter Aloni, and in view of Carrein Patent No.: 6,262,744, and further in view of Baron Patent No. 5,534,949.

Claim 26.

Aloni teaches a color image display system (i.e. noted in col. 14 lines 42-49) comprising: Aloni teaches a plurality of partial image display (i.e. noted in col. 4 lines 34-44, discloses four modular units, and each modular unit is considered as a partial

image display) means for displaying partial images to be synthetically displayed as one image (i.e. noted in the same column, which they can be assembled to produce a combined screen of the size), on the basis of partial image data, wherein each of the partial images is part of a color image (i.e. noted from fig. 24 a modular unit projects a Red/Green/Blue color image), and wherein the partial image data is data of part of a color image, and Aloni teaches image data conversion means for converting input image data into said partial image data (i.e. noted in col. 2 lines 55-67, arranging the plurality of modular units in a side-by-side array such as to combine their respective displays to produce a combined display) on the basis of gray scale correction data (i.e. noted in col. 11 lines 40-44) and color conversion matrix data (i.e. noted in col. 14 lines 36-37) of each of said plurality of partial image display means, wherein each of the partial image data is provided to a corresponding one of the plurality of partial image display (see, an explanation, above) means such that the one image can be displayed, wherein the plurality of partial image display means is a multi-primary-color display (Aloni in fig. 24 discloses three colors Red/Green/Blue) means displaying each pixel Aloni in figs.16 teaches for every pixel calculate the four surrounding points) with at least four primary colors.

Aloni does not explicitly specify displaying each pixel with at least four primary colors. However, Carrein teaches displaying each pixel with at least four primary (four or more primaries) (i.e. noted in col. 8 lines 27-31, also see the bridging paragraph between cols. 2-3). Therefore, it would have been obvious to a person skill in the art at the time of the invention to combine the system of Carrein to convert the XYZ input image data to be

inputted into the system of Aloni in order to use more than three display primaries provides a wider color gamut (i.e. noted in col. 3 lines 4-5).

The combination of Aloni and Carrein discloses all of the claimed limitations as stated above, except that they do not explicitly specify that the channel as shown in the system of Carrein transmit the signal to a project means of the display system of Aloni.

However, Baron teaches two projectors that make up the two display channels (col. 2, lines 29-60; col. 3 lines 36-37).

Therefore, it would have been obvious to a person skill in the art at the time of the invention to apply the two-channel field sequential color display as taught by Baron into the display projection system of Aloni and Carrein because projectors in such a system would generate different color images independently on the screen simultaneously and time sequentially (col. 2 lines 57-60).

Claims 27-28,

Claims 27-28 are rejected with similar reasons as set forth in claim 26, above. Except for, Aloni teaches a predetermined set bias (e.g., in fig. 7 refs. 8a and 8b) on the basis of bias correction (see in fig. 13) data (e.g., calibrating the modules).

Claim 38.

Claim 38 is rejected with a similar reason as set forth in claim 26, above. Claim 38 cites nonuniformity correction (see in fig. 13, e.g., calibrating the modules) coefficient data (i.e. noted in col. 11 line 25, eq. 1 the coefficient "k", also claim 38 cites light-shielding place dimming overlap region of the partial image.

Aloni does not explicitly disclose light-shielding place dimming overlap region.

However, Examiner takes an official notice that the expression "light-shielding" is well know in the art, and it is similar to what the reference Aloni teaches as the light sensors 44 (or a photo sensor) in fig. 10, also see, in col. 7 lines 56-63. (See, Patent No.: 5,760,881; and Patent No.: 5,490,896 for "light-shielding").

Claim 39 is rejected with similar reason as set forth in claim 38, above. However, claim 39 cites " ... ND filter dimming overlap region ..." That is an optical filter that reduces the intensity of light. Aloni teaches in col. 7 lines 56-63 a light emitter 43 and a light sensor 44, the combination of these two sensors may be considered as a light filter.

It would have been obvious to one of ordinary skill in the art at the time of the invention to substitute applicant 's described structure, as a light sensor place dimming overlap region ... in order to display more than one modular unit in a seamless manner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Javid A Amini
Examiner
Art Unit 2628

J.A.